Pioneer sound.vision.soul

Multi-CD control High power CD player
with FM/AM tuner

SUPER TUNER III

Operation Manual

DEH-P5450
DEH-P5450B

English

Español

Português (B)

Thank you for buying this Pioneer product.

Please read through these operating instructions so you will know how to operate your model properly. *After you have finished reading the instructions, put them away in a safe place for future reference.*

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About this manual

This unit features a number of sophisticated functions ensuring superior reception and operation. All the functions have been designed for the easiest possible use, but many are not self-explanatory. This operation manual will help you benefit fully from this product's potential, and to maximize your listening enjoyment.
We recommend that you familiarize yourself with the functions and the operation by reading through the manual before you begin using this unit. It's especially important that you read and observe precautions on this page and in other sections.
This manual explains head unit operation. You can perform the same operations with the remote control. (■)

Precautions

CAUTION: USE OF CONTROL OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

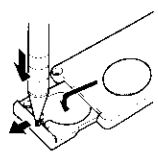
CAUTION: THE USE OF OPTICAL INSTRUMENTS WITH THIS PRODUCT WILL INCREASE EYE HAZARD.

- Keep this manual handy as a reference for operating procedures and precautions.
- Always keep the volume low enough so you can hear sounds outside of the car.
- Protect this product from moisture.
- If the battery is disconnected or discharged, the preset memory will be erased and must be reprogrammed.
- Should this product fail to operate properly, contact your dealer or nearest authorized Pioneer Service Station. (■)

Use and care of the remote control

Installing the battery

Remove the cover on the back of the remote control and insert the battery with the plus (+) and minus (–) poles pointing in the proper direction.



⚠ WARNING

Keep the battery out of the reach of children. Should the battery be swallowed, immediately consult a doctor.

⚠ CAUTION

- Use only one **CR2025 (3V)** lithium battery.
- Remove the battery if the remote control is not to be used for a month or longer.
- Do not recharge, disassemble, heat or dispose of the battery in fire.
- Do not handle the battery with metallic tools.
- Do not store the battery with metallic materials.
- In the event of battery leakage, wipe the remote control completely clean and install a new battery.
- When disposing of used batteries, please comply with governmental regulations or environmental public institution's rules that apply in your country/area.

Using the remote control

Point the remote control in the direction of the front panel to operate.

Important

- Do not store the remote control in high temperatures or direct sunlight.
- The remote control may not function properly in direct sunlight.
- Do not let the remote control fall onto the floor, where it may become jammed under the brake or accelerator pedals. (■)

Protecting your unit from theft

The front panel can be detached from the head unit and stored in the protective case provided to discourage theft.

- If the front panel is not detached from the head unit within five seconds of turning off the ignition, a warning tone will sound.
- You can turn off the warning tone. See *Switching the warning tone* on page 32.

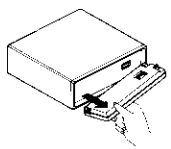
Important

- Never use force or grip the display and the buttons tightly when removing or attaching.
- Avoid subjecting the front panel to excessive shocks.
- Keep the front panel out of direct sunlight and high temperatures.

Removing the front panel

1 Press OPEN to open the front panel.

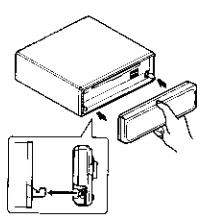
2 Grip the left side of the front panel and pull it gently outward.
Take care not to grip it tightly or drop it.

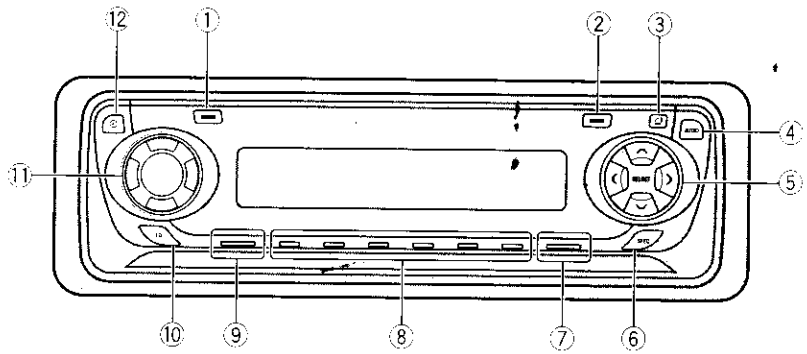


3 Put the front panel into the protective case provided for safe keeping.

Attaching the front panel

Replace the front panel by holding it upright to this unit and clipping it securely into the mounting hooks.





What's What

Head unit

① **DISPLAY button**
Press to select different displays.

② **FUNCTION button**
Press to select functions.

③ **OPEN button**
Press to open the front panel.

④ **AUDIO button**
Press to select various sound quality controls.

⑤ **▲/▼/◄/► buttons**
Press to do manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions.

⑥ **SFEQ button**
Press to select a natural sound with presence.

⑦ **BAND/ESC button**
Press to select among three FM or AM bands and cancel the control mode of functions.

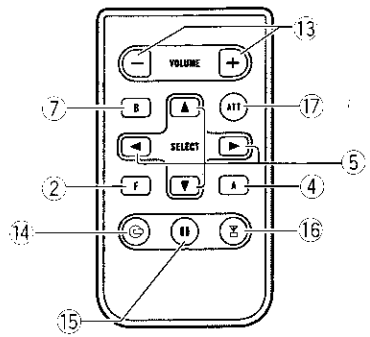
⑧ **1–6 (PRESET TUNING) buttons**
Press for preset tuning and disc number search when using a multi-CD player.

⑨ **SOURCE button**
This unit is switched on by selecting a source. Press to cycle through all of the available sources.

⑩ **EQ button**
Press to select various equalizer curves.

⑪ **VOLUME**
When you press **VOLUME**, it extends outward so that it becomes easier to turn.
To retract the **VOLUME**, press it again.
Rotate to increase or decrease the volume.

⑫ **CLOCK button**
Press to switch clock display on or off.



Remote control

A remote controller that enables remote operation of the head unit is supplied. Operation is the same as when using the button on the head unit. See the explanation of the head unit about the operation of each button with the exception of **ATT**, which is explained below.

13 **+/– button**
Raise or lower the volume.

14 **CD button**
Press to select among a Built-in CD player, a Multi-CD player, and OFF.

15 **PAUSE button**
Press once to pause play.

16 **TUNER button**
Press to select among a TV, a TUNER, and OFF.

17 **ATT button**
Press to quickly lower the volume level, by about 90%. Press once more to return to the original volume level. ■

Turning the unit on

Press SOURCE to turn the unit on.
When you select a source the unit is turned on. ■

Selecting a source

You can select a source you want to listen to. To switch to the built-in CD player, load a disc in this unit (refer to page 13).

Press SOURCE to select a source.
Press **SOURCE** repeatedly to switch between the following sources:
Built-in CD player—TV—Tuner—Multi-CD player—External unit—AUX

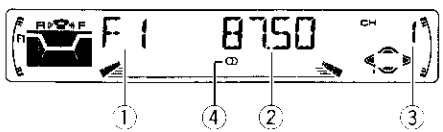
Notes

- In the following cases, the sound source will not change:
  - When a product corresponding to each source is not connected to this unit.
  - When no disc is set in this unit.
  - When no magazine is set in the multi-CD player.
  - When the AUX (external input) is set to off (refer to page 32).
- External unit refers to a Pioneer product (such as one available in the future) that, although incompatible as a source, enables control of basic functions by this unit. Only one external unit can be controlled by this unit.
- When this unit's blue/white lead is connected to the car's auto-antenna relay control terminal, the car's antenna extends when this unit's source is switched on. To retract the antenna, switch the source off. ■

Turning the unit off

Press SOURCE and hold for at least one second to turn the unit off. ■

Listening to the radio



These are the basic steps necessary to operate the radio. More advanced tuner operation is explained starting on page 11.
If you are using this unit in North, Central or South America, reset the AM tuning step (see *Setting the AM tuning step* on page 32).

1 **BAND indicator**
Shows which band the radio is tuned to, AM or FM.

2 **FREQUENCY indicator**
Shows to which frequency the tuner is tuned.

3 **PRESET NUMBER indicator**
Shows what preset has been selected.

4 **STEREO (◌) indicator**
Shows that the frequency selected is being broadcast in stereo.

1 Press SOURCE to select the tuner.

2 Use VOLUME to adjust the sound level.
Rotate to increase or decrease the volume.

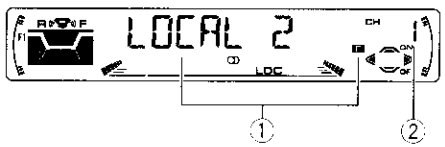
3 Press BAND/ESC to select a band.
Press **BAND/ESC** until the desired band is displayed, **F1**, **F2**, **F3** for FM or **AM**.

4 To perform manual tuning, press ◄ or ► with quick presses.
The frequencies move up or down step by step.

5 To perform seek tuning, press and hold ◄ or ► for about one second and release.
The tuner will scan the frequencies until a broadcast strong enough for good reception is found.
- You can cancel seek tuning by pressing either ◄ or ► with a quick press.
- If you press and hold ◄ or ► you can skip broadcasting stations. Seek tuning starts as soon as you release the buttons.

Note
- When the frequency selected is being broadcast in stereo the **STEREO** (◌) indicator will light. ▣

Introduction of advanced tuner operation



1 **FUNCTION display**
Shows the function status.

2 **PRESET NUMBER indicator**
Shows what preset has been selected.

Press FUNCTION to display the function names.
Press **FUNCTION** repeatedly to switch between the following functions:
BSM (best stations memory)—**LOCAL** (local seek tuning)
- To return to the frequency display, press **BAND/ESC**.
- If AM is selected, you can only select **BSM** or **LOCAL**.

Note
- If you do not operate the function within about 30 seconds, the display is automatically returned to the frequency display. ▣

Storing and recalling broadcast frequencies

If you press any of the **PRESET TUNING** buttons you can easily store up to six broadcast frequencies for later recall with the touch of a button.

When you find a frequency that you want to store in memory press a PRESET TUNING button and hold until the preset number stops flashing.
The number you have pressed will flash in the **PRESET NUMBER** indicator and then remain lit. The selected radio station frequency has been stored in memory.
The next time you press the same **PRESET TUNING** button the radio station frequency is recalled from memory.

Notes
- Up to 18 FM stations, 6 for each of the three FM bands, and 6 AM stations can be stored in memory.
- You can also use ▲ and ▼ to recall radio station frequencies assigned to **PRESET TUNING** buttons. ▣

English

Tuning in strong signals

Local seek tuning lets you tune in only those radio stations with sufficiently strong signals for good reception.

1 Press FUNCTION to select LOCAL.
Press **FUNCTION** until **LOCAL** appears in the display.

2 Press ▲ to turn local seek tuning on.
Local seek sensitivity (e.g., **LOCAL 2**) appears in the display.

3 Press ◄ or ► to set the sensitivity.
There are four levels of sensitivity for FM and two levels for AM:
FM: LOCAL 1—LOCAL 2—LOCAL 3—LOCAL 4
AM: LOCAL 1— LOCAL 2
The **LOCAL 4** setting allows reception of only the strongest stations, while lower settings let you receive progressively weaker stations.

4 When you want to return to normal seek tuning, press ▼ to turn local seek tuning off.
LOCAL :OFF appears in the display. ▣

Storing the strongest broadcast frequencies

BSM (best stations memory) lets you automatically store the six strongest broadcast frequencies under **PRESET TUNING** buttons **1–6** and once stored there you can tune in to those frequencies with the touch of a button.

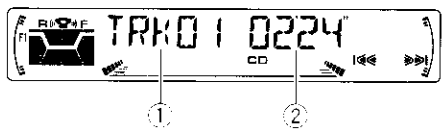
1 Press FUNCTION to select BSM.
Press **FUNCTION** until **BSM** appears in the display.

2 Press ▲ to turn BSM on.
BSM begins to flash. While **BSM** is flashing the six strongest broadcast frequencies will be stored under **PRESET TUNING** buttons in order of their signal strength. When finished, **BSM** stops flashing.
• To cancel the storage process, press ▼.

Note

• Storing broadcast frequencies with BSM may replace broadcast frequencies you have saved using **PRESET TUNING**. ▣

Playing a CD



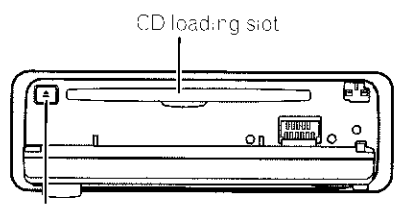
These are the basic steps necessary to play a CD with your built-in CD player. More advanced CD operation is explained starting on page 14.

1 **TRACK NUMBER indicator**
Shows the track currently playing.

2 **PLAY TIME indicator**
Shows the elapsed playing time of the current track.

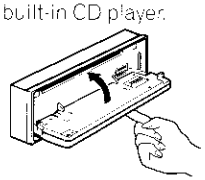
1 Press OPEN to open the front panel.
CD loading slot appears.

2 Insert a CD into the CD loading slot.
Playback will automatically start.



• You can eject a CD by pressing **CD EJECT**.

3 Close the front panel.
• After a CD has been inserted, press **SOURCE** to select the built-in CD player.



4 Use VOLUME to adjust the sound level.
Rotate to increase or decrease the volume.

5 To perform fast forward or reverse, press and hold ◄ or ►.

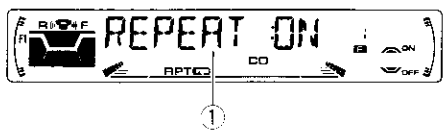
6 To skip back or forward to another track, press ◄ or ►.
Pressing ► skips to the start of the next track. Pressing ◄ once skips to the start of the current track. Pressing again will skip to the previous track.

Notes

• The built-in CD player plays one standard, 12-cm or 8-cm (single) CD at a time. Do not use an adapter when playing 8-cm CDs.
• Do not insert anything other than a CD into the CD loading slot.
• If you cannot insert a disc completely or if after you insert a disc the disc does not play, check that the label side of the disc is up. Press **CD EJECT** to eject the disc, and check the disc for damage before inserting the disc again.
• If the built-in CD player does not operate properly, an error message such as **ERROR-14** may be displayed. Refer to *Understanding built-in CD player error messages* on page 36.
• The Built-in CD player is not equipped with CD TEXT function.
• A CD TEXT disc is a CD featuring recorded text information such as Disc Title, Artist Name and Track Title. ▣

English

Introduction of advanced built-in CD player operation



1 **FUNCTION display**
Shows the function status.

Press FUNCTION to display the function names.
Press **FUNCTION** repeatedly to switch between the following functions:
REPEAT (repeat play)—**RANDOM** (random play)—**T-SCAN** (scan play)—**PAUSE** (pause)
• To return to the playback display, press **BAND/ESC**.

Note

• If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display.

Repeating play

Repeat play lets you hear the same track over again.

1 Press FUNCTION to select REPEAT.
Press **FUNCTION** until **REPEAT** appears in the display.

2 Press ▲ to turn repeat play on.
REPEAT :ON appears in the display. The track presently playing will play and then repeat.

3 Press ▼ to turn repeat play off.
REPEAT :OFF appears in the display. The track presently playing will continue to play and then play the next track.

Note

• If you perform track search or fast forward/reverse, repeat play is automatically cancelled.

Playing tracks in a random order

Random play lets you play back tracks on the CD in a random order.

1 Press FUNCTION to select RANDOM.
Press **FUNCTION** until **RANDOM** appears in the display.

2 Press ▲ to turn random play on.
RANDOM :ON appears in the display. Tracks will play in a random order.

3 Press ▼ to turn random play off.
RANDOM :OFF appears in the display. Tracks will continue to play in order.

Scanning tracks of a CD

Scan play lets you hear the first 10 seconds of each track on the CD.

1 Press FUNCTION to select T-SCAN.
Press **FUNCTION** until **T-SCAN** appears in the display.

2 Press ▲ to turn scan play on.
T-SCAN :ON appears in the display. The first 10 seconds of each track is played.

3 When you find the desired track press ▼ to turn scan play off.
T-SCAN :OFF appears in the display. The track will continue to play.
• If the display has automatically returned to the playback display, select **T-SCAN** again by pressing **FUNCTION**.

Note

• After scanning of a CD is finished, normal playback of the tracks will begin again.

Pausing CD playback

Pause lets you temporarily stop playback of the CD.

1 Press FUNCTION to select PAUSE.
Press **FUNCTION** until **PAUSE** appears in the display.

2 Press ▲ to turn pause on.
PAUSE :ON appears in the display. Play of the current track pauses.

3 Press ▼ to turn pause off.
PAUSE :OFF appears in the display. Play will resume at the same point that you turned pause on.

Using disc title functions

You can input CD titles and display the title. The next time you insert a CD for which you have entered a title, the title of that CD will be displayed.

Entering disc titles

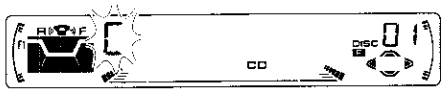
Disc title input lets you input CD titles up to 10 letters long and up to 48 disc titles into the built-in CD player.

1 Play a CD that you want to enter the title.

2 Press FUNCTION and hold until TITLE IN appears in the display.

3 Press ▲ or ▼ to select a letter of the alphabet.

Each press of ▲ will display a letter of the alphabet in **A B C ... X Y Z**, numbers and symbols in **1 2 3 ... @ # <** order. Each press of ▼ will display a letter in the reverse order, such as **Z Y X ... C B A** order.



4 Press ► to move the cursor to the next character position.

When the letter you want is displayed, press ► to move the cursor to the next position and then select the next letter. Press ◄ to move backwards in the display.

5 Move the cursor to the last position by pressing ► after entering the title.

When you press ► one more time, the entered title is stored in memory.

6 Press BAND/ESC to return to the playback display.

Notes

- Titles remain in memory, even after the disc has been removed from built-in CD player, and are recalled when the disc is reinserted.
- After data for 48 discs has been stored in memory, data for a new disc will overwrite the oldest one.

Displaying disc titles

You can display the title of any disc that has had a disc title entered.

Press DISPLAY.

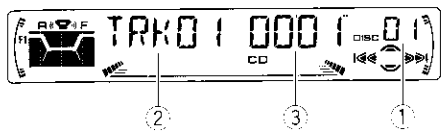
Press **DISPLAY** repeatedly to switch between the following settings:

PLAY TIME (playback time)—**DISC TITLE** (disc title)

When you select **DISC TITLE**, the title of the currently playing disc is shown in the display.

- If no title has been entered for the currently playing disc, **NO TITLE** is displayed.

Playing a CD



You can use this unit to control a multi-CD player, which is sold separately.

These are the basic steps necessary to play a CD with your multi-CD player. More advanced CD operation is explained starting on page 18.

1 **DISC NUMBER indicator**
Shows the disc currently playing.

2 **TRACK NUMBER indicator**
Shows the track currently playing.

3 **PLAY TIME indicator**
Shows the elapsed playing time of the current track.

1 Press SOURCE to select the multi-CD player.

Press **SOURCE** until you see **Multi-CD** displayed.

2 Use VOLUME to adjust the sound level.

Rotate to increase or decrease the volume.

3 Select a disc you want to listen to with the 1 to 6 buttons.

For discs located at 1 to 6, press the corresponding number button.

If you want to select a disc located at 7 to 12, press and hold the corresponding numbers such as **1** for disc 7, until the disc number appears in the display.

- You can also sequentially select a disc by pressing ▲/▼.

4 To perform fast forward or reverse, press and hold ◄ or ►.

5 To skip back or forward to another track, press ◄ or ►.

Pressing ► skips to the start of the next track. Pressing ◄ once skips to the start of the current track. Pressing again will skip to the previous track.

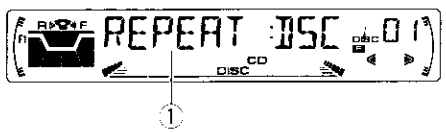
Notes

- When the multi-CD player performs the preparatory operations, **READY** is displayed.
- If the multi-CD player does not operate properly, an error message such as **ERROR-14** may be displayed. Refer to the multi-CD player owner's manual.
- If there are no discs in the multi-CD player magazine, **NO DISC** is displayed.

50-disc multi-CD player

Only those functions described in this manual are supported for 50-disc multi-CD players.

Introduction of advanced multi-CD player operation



1 **FUNCTION display**
Shows the function status.

Press FUNCTION to display the function names.
Press **FUNCTION** repeatedly to switch between the following functions:
REPEAT (repeat play)—**TITLE LIST** (disc title list)—**RANDOM** (random play)—**SCAN** (scan play)—**ITS-P** (ITS play)—**PAUSE** (pause)—**COMP** (compression and DBE)
- To return to the playback display, press **BAND/ESC**.

Note

- If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display. ■

Repeating play

There are three repeat play ranges for the multi-CD player: **MCD** (multi-CD player repeat), **TRK** (one-track repeat), and **DSC** (disc repeat).

1 Press FUNCTION to select REPEAT.
Press **FUNCTION** until **REPEAT** appears in the display.

2 Press ◄ or ► to select the repeat range.
Press ◄ or ► until the desired repeat range appears in the display.
- **MCD** — Repeat all discs in the multi-CD player
- **TRK** — Repeat just the current track
- **DSC** — Repeat the current disc

Notes

- If you select other discs during repeat play, the repeat play range changes to **MCD** (multi-CD player repeat).
- If you perform track search or fast forward/reverse during **TRK** (one-track repeat), the repeat play range changes to **DSC** (disc repeat). ■

Playing tracks in a random order

Random play lets you play back tracks in a random order within the repeat range. **MCD** (multi-CD player repeat) and **DSC** (disc repeat).

1 Select the repeat range.
Refer to *Repeating play* on page 18.

2 Press FUNCTION to select RANDOM.
Press **FUNCTION** until **RANDOM** appears in the display.

3 Press ▲ to turn random play on.
RANDOM :ON appears in the display. Tracks will play in a random order within the previously selected **MCD** (multi-CD player repeat) or **DSC** (disc repeat) ranges.

4 Press ▼ to turn random play off.
RANDOM :OFF appears in the display. Tracks will continue to play in order. ■

Scanning CDs and tracks

While you are using **DSC** (disc repeat), the beginning of each track on the selected disc plays for about 10 seconds. When you are using **MCD** (multi-CD player repeat), the beginning of the first track of each disc is played for about 10 seconds.

1 Select the repeat range.
Refer to *Repeating play* on page 18.

2 Press FUNCTION to select SCAN.
Press **FUNCTION** until **SCAN** appears in the display.

3 Press ▲ to turn scan play on.
SCAN :ON appears in the display. The first 10 seconds of each track of the present disc (or the first track of each disc) is played.

4 When you find the desired track (or disc) press ▼ to turn scan play off.
SCAN :OFF appears in the display. The track (or disc) will continue to play.
- If the display has automatically returned to the playback display, select **SCAN** again by pressing **FUNCTION**.

Note

- After track or disc scanning is finished, normal playback of the tracks will begin again. ■

Pausing CD playback

Pause lets you temporarily stop playback of the CD.

1 Press FUNCTION to select PAUSE.
Press **FUNCTION** until **PAUSE** appears in the display.

2 Press ▲ to turn pause on.
PAUSE :ON appears in the display. Play of the current track pauses.

3 Press ▼ to turn pause off.
PAUSE :OFF appears in the display. Play will resume at the same point that you turned pause on. ■

Using ITS playlists

ITS (instant track selection) lets you make a playlist of favorite tracks from those in the multi-CD player magazine. After you have added your favorite tracks to the playlist you can turn on ITS play and play just those selections.

Creating a playlist with ITS programming

You can use ITS to enter and playback up to 99 tracks per disc, up to 100 discs (with the disc title). (With multi-CD players sold before the CDX-P1250 and CDX-P650, up to 24 tracks can be stored in the playlist.)

1 Play a CD that you want to program.
Press ▲ or ▼ to select a CD.

2 Press FUNCTION and hold until TITLE IN appears in the display, then press FUNCTION to select ITS.
After **TITLE IN** is displayed, press **FUNCTION** repeatedly, the following functions appear in the display:
TITLE IN (disc title input)—**ITS** (ITS programming)

3 Select a desired track by pressing ◄ or ►.

4 Press ▲ to store the currently playing track in the playlist.
IN is displayed briefly and the currently playing selection is added to your playlist.

5 Press BAND/ESC to return to the playback display.

Note

- After data for 100 discs has been stored in memory, data for a new disc will overwrite the oldest one.

Playback from your ITS playlist

ITS playlists you listen to the tracks that you have entered into your ITS playlist. When you turn on ITS play, tracks from your ITS playlist in the multi-CD player will begin to play.

1 Select the repeat range.
Refer to *Repeating play* on page 18.

2 Press FUNCTION to select ITS-P.
Press **FUNCTION** until **ITS-P** appears in the display.

3 Press ▲ to turn ITS play on.
ITS-P :ON appears in the display. Playback begins of those tracks from your playlist within the previously selected **MCD** (multi-CD player repeat) or **DSC** (disc repeat) ranges.
- If no tracks in the current range are programmed for ITS play then **ITS EMPTY** is displayed.

4 Press ▼ to turn ITS play off.
ITS-P :OFF appears in the display. Playback will continue in normal order from the currently playing track and CD.

Erasing a track from your ITS playlist

When you want to delete a track from your ITS playlist, you can if ITS play is on.
If ITS play is already on, skip to step 2. If ITS play is not already on, press **FUNCTION**.

1 Play a CD you want to delete a track from your ITS playlist, and turn ITS play on.
Refer to *Playback from your ITS playlist* on page 20.

2 Press FUNCTION and hold until TITLE IN appears in the display, then press FUNCTION to select ITS.
After **TITLE IN** is displayed, press **FUNCTION** until **ITS** appears in the display.

3 Select a desired track by pressing ◄ or ►.

4 Press ▼ to erase a track from your ITS playlist.
The currently playing selection is erased from your ITS playlist and playback of the next track from your ITS playlist begins.
- If there are no tracks from your playlist in the current range, **ITS EMPTY** is displayed and normal play resumes.

5 Press BAND/ESC to return to the playback display.

Erasing a CD from your ITS playlist

When you want to delete all tracks of a CD from your ITS playlist, you can if ITS play is off.

1 Play a CD that you want to delete.
Press ▲ or ▼ to select a CD.

2 Press FUNCTION and hold until TITLE IN appears in the display, then press FUNCTION to select ITS.
After **TITLE IN** is displayed, press **FUNCTION** until **ITS** appears in the display.

3 Press ▼ to erase all tracks on the currently playing CD from your ITS playlist.
All tracks on the currently playing CD are erased from your playlist and **ITS CLEAR** is displayed.

4 Press BAND/ESC to return to the playback display. ▣

Using disc title functions

You can input CD titles and display the title. Then you can easily search for and select a desired disc for play.

Entering disc titles

Disc title input lets you input CD titles up to 10 letters long and up to 100 disc titles (with ITS playlist) into the multi-CD player.

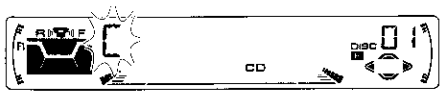
1 Play a CD that you want to enter the title.
Press ▲ or ▼ to select a CD.

2 Press FUNCTION and hold until TITLE IN appears in the display.
After **TITLE IN** is displayed, press **FUNCTION** repeatedly, the following functions appear in the display:
TITLE IN (disc title input)—**ITS** (ITS programming)

• When playing a CD TEXT disc on a CD TEXT compatible multi-CD player, you cannot switch to **TITLE IN**. The disc title will have already been recorded on a CD TEXT disc.

3 Press ▲ or ▼ to select a letter of the alphabet.

Each press of ▲ will display a letter of the alphabet in **A B C ... X Y Z**, numbers and symbols in **1 2 3 ... @ # <** order. Each press of ▼ will display a letter in the reverse order, such as **Z Y X ... C B A** order.



4 Press ► to move the cursor to the next character position.

When the letter you want is displayed, press ► to move the cursor to the next position and then select the next letter. Press ◄ to move backwards in the display.

5 Move the cursor to the last position by pressing ► after entering the title.

When you press ► one more time, the entered title is stored in memory.

6 Press BAND/ESC to return to the playback display.

Notes

- Titles remain in memory, even after the disc has been removed from the magazine, and are recalled when the disc is reinserted.
- After data for 100 discs has been stored in memory, data for a new disc will overwrite the oldest one.

Displaying disc titles

You can display the title of any disc that has had a disc title entered.

Press DISPLAY.

Press **DISPLAY** repeatedly to switch between the following settings:

PLAY TIME (playback time)—**DISC TITLE** (disc title)

When you select **DISC TITLE**, the title of the currently playing disc is shown in the display.

• If no title has been entered for the currently playing disc, **NO TITLE** is displayed.

Selecting discs from the disc title list

Disc title list lets you see the list of disc titles that have been entered into the multi-CD player and select one of them to playback.

1 Press FUNCTION to select TITLE LIST.

Press **FUNCTION** until **TITLE LIST** appears in the display.

2 Press ◄ or ► to scroll through the list of titles that have been entered.

• Nothing is displayed for disc whose titles have not been input.

3 Press ▲ to play your favorite CD title.

That selection will begin to play.

Using CD TEXT functions

You can use these functions only with a CD TEXT compatible multi-CD player.

Some discs have certain information encoded on the disc during manufacture. These discs may contain such information as the CD title, track title, artist's name and playback time and are called CD TEXT discs. Only these specially encoded CD TEXT discs support the functions listed below.

Displaying titles on CD TEXT discs

Press DISPLAY when playing a CD TEXT disc from the multi-CD player.

Press **DISPLAY** repeatedly to switch between the following settings:

PLAY TIME (playback time)—**DISC TITLE** (disc title)—**D.ARTIST** (disc artist)—**TRK TITLE** (track title)—**T.ARTIST** (track artist)

• If specific information has not been recorded on a CD TEXT disc, **NO XXXX** will be displayed (e.g., **NO D-TITLE**).

Scrolling titles in the display

This unit can display the first 10 letters only of **DISC TITLE**, **D.ARTIST**, **TRK TITLE** and **T.ARTIST**. When the recorded information is longer than 10 letters, you can scroll the text to the left so that the rest of the title can be seen.

Press DISPLAY and hold until the title begins to scroll to the left.

The rest of the title will appear in the display.

English

Using compression and bass emphasis

You can use these functions only with a multi CD player that supports them.

Using COMP (compression) and DBE (dynamic bass emphasis) functions let you adjust the sound playback quality of the multi-CD player. Each of the functions have a two-step adjustment. The COMP function balances the output of louder and softer sounds at higher volumes. DBE boosts bass levels to give playback a fuller sound. Listen to each of the effects as you select through them and use the one that best enhances the playback of the track or CD that you are listening to.

1 Press FUNCTION to select COMP.

Press **FUNCTION** until **COMP** appears in the display.

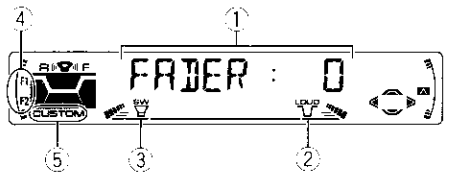
- If the multi-CD player does not support COMP/DBE, **NO COMP** is displayed when you attempt to select it.

2 Press ▲ or ▼ to select your favorite setting.

Press ▲ or ▼ repeatedly to switch between the following settings:

COMP OFF—COMP 1—COMP 2—COMP OFF—DBE 1 DBE 2

Introduction of audio adjustments



1. **AUDIO display**
   Shows the audio adjustments status.

2. **LOUD indicator**
   Appears in the display when loudness is turned on.

3. **SW indicator**
   Appears in the display when subwoofer is turned on.

4. **F1 or F2 indicator**
   The **F1** or **F2** indicator lights depending on the SFEQ setting.

5. **CUSTOM indicator**
   Appears in the display when equalization is adjusted.

Press AUDIO to display the audio function names.

Press **AUDIO** repeatedly to switch between the following audio functions:

FADER (balance adjustment)—**EQ** (equalizer curve fine adjustment)—**BASS** (bass)—**TRE** (treble)—**LOUD** (loudness)—**SUB.W** (subwoofer output)—**80HZ0** (subwoofer setting adjustment)—**SLA** (source level adjustment)

- When selecting the FM tuner as the source, you cannot switch to **SLA**.
- To return to the display of each source, press **BAND/ESC**.

Notes

- If you do not operate the audio function within about 30 seconds, the display is automatically returned to the source display.
- Audio Menu functions change depending on the rear output setting in the Initial Setting Menu. Refer to *Switching the rear output setting* on page 33. ▣

Setting the sound focus equalizer

Clarifying the sound image of vocals and instruments allows the simple staging of a natural, pleasant sound environment.
Even greater listening enjoyment will be obtained if seating positions are chosen carefully.
• **FRT1** boosts the treble on the front output and the bass on the rear output.
FRT2 boosts the treble and the bass on the front output and the bass on the rear output. (The bass boost is the same for both front and rear.)
For both **FRT1** and **FRT2** the **HI** setting provides a more pronounced effect than the **LOW** setting.

1 Press SFEQ to select the desired SFEQ mode.
Press **SFEQ** repeatedly to switch between the following setting:
FRT1-HI (front 1-high)—**FRT1-LOW** (front 1-low)—**FRT2-HI** (front 2-high)—**FRT2-LOW** (front 2-low)—**CUSTOM** (custom)—**SFEQ OFF** (off)
Selected mode (e.g., **F1**) appears in the display.

2 Press ◄ or ► to select the desired position.
Press ◄ or ► until the desired position appears in the display.
L (left)—**C** (center)—**R** (right)

Note

• If you adjust the bass or treble, **CUSTOM** memorizes an **SFEQ** mode in which the bass and treble are adjusted for personal preference. ▣

Using balance adjustment

You can select a fader/balance setting that provides an ideal listening environment in all occupied seats.

1 Press AUDIO to select FADER.
Press **AUDIO** until **FADER** appears in the display.
• If the balance setting has been previously adjusted, **BAL** will be displayed.

2 Press ▲ or ▼ to adjust front/rear speaker balance.
Each press of ▲ or ▼ moves the front/rear speaker balance towards the front or the rear.
• **FADER :F15** – **FADER :R15** is displayed as the front/rear speaker balance moves from front to rear.
• **FADER : 0** is the proper setting when only two speakers are used.
• When the rear output setting is subwoofer, you cannot adjust front/rear speaker balance. Refer to *Switching the rear output setting* on page 33.

3 Press ◄ or ► to adjust left/right speaker balance.
When you press ◄ or ►, **BAL : 0** is displayed. Each press of ◄ or ► moves the left/right speaker balance towards the left or the right.
• **BAL :L9** – **BAL :R9** is displayed as the left/right speaker balance moves from left to right. ▣

Using the equalizer

The equalizer lets you adjust the equalization to match car interior acoustic characteristics as desired.

Recalling equalizer curves

There are seven stored equalizer curves which you can easily recall at any time. Here is a list of the equalizer curves:

Display	Equalizer curve
POWERFUL	Powerful
NATURAL	Natural
VOCAL	Vocal
CUSTOM1, 2	Custom 1, 2
EQ FLAT	Flat
SUPER BASS	Super bass

• **CUSTOM1** and **CUSTOM2** are adjusted equalizer curves that you create.
• A separate **CUSTOM1** curve can be created for each source. (The Built-in CD player and Multi-CD player are set to the same Equalizer Curve Adjustment setting automatically.)
• If you make adjustments when a curve other than **CUSTOM2** is selected, the equalizer curve settings are memorized in **CUSTOM1**.
• A **CUSTOM2** curve can be created common to all sources.
• If you make adjustments when the **CUSTOM2** curve is selected, the **CUSTOM2** curve is updated.
• When **EQ FLAT** is selected no supplement or correction is made to the sound. This is useful to check the effect of the equalizer curves by switching alternatively between **EQ FLAT** and a set equalizer curve.

Press EQ to select the equalizer.
• If the equalizer has been previously set to an equalizer curve other than **POWERFUL** then the title of that previously selected equalizer curve will be displayed, such as **NATURAL**, **VOCAL**, **CUSTOM1**, **CUSTOM2**, **EQ FLAT** or **SUPER BASS**.

Adjusting equalizer curves

You can adjust the currently selected equalizer curve setting as desired. Adjusted equalizer curve settings are memorized in **CUSTOM1** or **CUSTOM2**.

1 Press AUDIO to select the equalizer mode.
Press **AUDIO** until **EQ-LOW/EQ-MID/EQ-HIGH** appears in the display.

2 Select the band you want to adjust with the ◄/►.
EQ-LOW (low)—**EQ-MID** (mid)—**EQ-HIGH** (high)

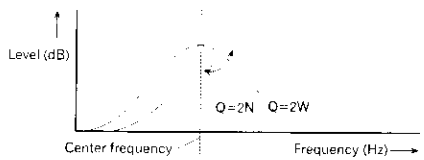
3 Press ▲ or ▼ to adjust the equalizer curve.
Each press of ▲ or ▼ increases or decreases the equalizer curve respectively.
• **+6** – **–6** is displayed as the equalizer curve is increased or decreased.
• The actual range of the adjustments are different depending on which equalizer curve is selected.

Note

• If you make adjustments when a curve other than **CUSTOM2** is selected, the newly adjusted curve will replace the previous **CUSTOM1** curve.

Equalizer curve fine adjustment

You can adjust the center frequency and the Q factor (curve characteristics) of each currently selected curve band (**EQ-LOW/EQ-MID/EQ-HIGH**).



1 Press AUDIO and hold until frequency and the Q factor (e.g., F-80 Q-1W) appears in the display.

2 Press AUDIO to select the desired band for adjustment.
Press **AUDIO** repeatedly to switch between the following bands:
EQ-LOW (low)—**EQ-MID** (mid)—**EQ-HIGH** (high)

3 Press ◄/► to select the desired frequency.
Press ◄ or ► until the desired frequency appears in the display.
LOW: 40—80—100—160 (Hz)
MID: 200—500—1K—2K (Hz)
HIGH: 3K—8K—10K—12K (Hz)

4 Press ▲/▼ to select the desired Q factor.
Press ▲ or ▼ until the desired Q factor appears in the display.
2N—1N—1W—2W

Note

- If you make adjustments when a curve other than **CUSTOM2** is selected, **CUSTOM1** curve is updated. ▣

Adjusting bass

You can adjust the cut-off frequency and the bass level.
In **FRT1** mode, bass adjustment affects only the rear output; front output cannot be adjusted.

1 Press AUDIO to select BASS.
Press **AUDIO** until **BASS** appears in the display.

2 Select the desired frequency with ◄/►.
Press ◄ or ► until the desired frequency appears in the display.
40—63—100—160 (Hz)

3 Press ▲ or ▼ to adjust the bass level.
Each press of ▲ or ▼ increases or decreases the bass level. **+6 – –6** displayed as the level is increased or decreased. ▣

Adjusting treble

You can adjust the cut-off frequency and the treble level.
In **FRT1** and **FRT2** modes, treble adjustment affects only the front output; rear output cannot be adjusted.

1 Press AUDIO to select TRE.
Press **AUDIO** until **TRE** appears in the display.

2 Select the desired frequency with ◄/►.
Press ◄ or ► until the desired frequency appears in the display.
2K—4K—6K—10K (Hz)

3 Press ▲ or ▼ to adjust the treble level.
Each press of ▲ or ▼ increases or decreases the treble level. **+6 – –6** displayed as the level is increased or decreased. ▣

Adjusting loudness

Loudness compensates for deficiencies in the low- and high-sound ranges at low volume.

1 Press AUDIO to select LOUD.
Press **AUDIO** until **LOUD** appears in the display.

2 Press ▲ to turn loudness on.
Loudness level (e.g., **LOUD :MID**) appears in the display.

3 Press ◄ or ► to select the level.
Press ◄ or ► until the desired level appears in the display.
LOW (low)—**MID** (mid)—**HI** (high)

4 Press ▼ to turn loudness off.
LOUD :OFF appears in the display. ▣

Using subwoofer output

This unit is equipped with a subwoofer output which can be switched on or off. When a subwoofer is connected to the rear output, first, switch the rear output setting to subwoofer, then turn the subwoofer output on. For more details, see *Switching the rear output setting* on page 33.

1 Press AUDIO to select SUB.W.
When the rear output setting is subwoofer, you can select **SUB.W**. Press **AUDIO** until **SUB.W** appears in the display.

2 Press ▲ to turn subwoofer output on.
SUB.W :ON appears in the display. Subwoofer output is now on.

3 Press ▼ to turn subwoofer output off.
SUB.W :OFF appears in the display. Subwoofer output is now off.

Adjusting subwoofer settings

When the subwoofer output is on, you can adjust the cut-off frequency and the output level of the subwoofer.

1 Press AUDIO to select the subwoofer setting.

When the subwoofer output is on, you can select the subwoofer setting. Press **AUDIO** until **80Hz** appears in the display.

• If the subwoofer setting has been previously adjusted, the frequency of that previously selected will be displayed, such as **50Hz** or **125Hz**.

2 Press ◄ or ► to select cut-off frequency.

Press ◄ and **50Hz** is displayed. Press ► and **125Hz** is displayed. Only frequencies lower than those in the selected range are output from the subwoofer.

3 Press ▲ or ▼ to adjust the output level of the subwoofer.

Each press of ▲ or ▼ increases or decreases the level of the subwoofer (e.g., **+6** to **–6**). Press ▲ or ▼ until you see the desired value displayed. ▣

Adjusting source levels

SLA (Source level adjustment) lets you adjust the volume level of each source to prevent radical changes in volume when switching between sources.

• Settings are based on the volume level of the FM tuner, which remains unchanged.

1 Compare the FM tuner volume level with the level of the source you wish to adjust (e.g., built-in CD player).

2 Press AUDIO to select SLA.

Press **AUDIO** until **SLA** appears in the display.

3 Press ▲ or ▼ to adjust the source volume.

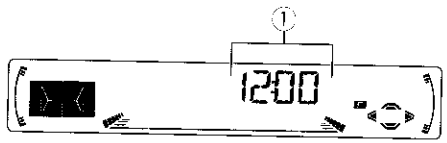
Each press of ▲ or ▼ increases or decreases the source volume.

• **SLA :+4** – **SLA :–4** is displayed as the source volume is increased or decreased.

Notes

- Since the FM tuner volume is the control, it is not possible to apply source level adjustments to the FM tuner.
- The AM tuner volume level can also be adjusted with source level adjustments.
- The built-in CD and the multi-CD players are both set to the same source level adjustment volume automatically. ▣

Adjusting initial settings



Initial settings lets you perform initial set up of different settings for this unit.

1 **FUNCTION display**
Shows the function status.

1 Press SOURCE and hold until the unit turns off.

2 Press FUNCTION and hold until FM STEP appears in the display.

3 Press FUNCTION to select one of the initial settings.

Press **FUNCTION** repeatedly to switch between the following settings:

TIME—FM STEP—AM STEP—WARN—AUX—DIMMER—FRT+REAR

Use the following instructions to operate each particular setting.

• To cancel initial settings, press **BAND/ESC**.

• You can also cancel initial settings by holding down **FUNCTION** until the unit turns off. ▣

Setting the time

This is used to set the time on the unit's clock display.

1 Press FUNCTION to select the time.

Press **FUNCTION** until the time appears in the display.

2 Select the portion of the time display you wish to set with ◄/►.

Pressing ◄/► will select a portion of the clock display:

HOUR—MINUTE

As you select portions of the clock display the portion selected will blink.

3 Select the correct time with ▲/▼.

Pressing ▲ will increase the selected hour or minute. Pressing ▼ will decrease the selected hour or minute. ▣

Setting the FM tuning step

The tuning step employed by Seek Tuning in the FM mode can be switched between 100 kHz (preset at the factory) and 50 kHz.

1 Press FUNCTION to select FM STEP.
Press **FUNCTION** repeatedly until **FM STEP** appears in the display.

2 Select the FM tuning step with ◄/►.

Note

- If seek tuning is performed in 50 kHz steps, stations may be tuned in imprecisely. Tune in the stations with manual tuning or use seek tuning again. ▣

Setting the AM tuning step

The AM tuning step can be switched between 9 kHz, the preset step, and 10 kHz. When using the tuner in North, Central or South America, reset the tuning step from 9 kHz (531 – 1,602 kHz allowable) to 10 kHz (530 – 1,640 kHz allowable).

1 Press FUNCTION to select AM STEP.
Press **FUNCTION** repeatedly until **AM STEP** appears in the display.

2 Select the AM tuning step with ◄/►.
Pressing ◄/► will switch the AM tuning step between 9 kHz and 10 kHz. The selected AM tuning step will appear in the display. ▣

Switching the warning tone

If the front panel is not detached from the head unit within five seconds of turning off the ignition, a warning tone will sound. You can turn off this warning tone.

1 Press FUNCTION to select WARN.
Press **FUNCTION** repeatedly until **WARN** appears in the display.

2 Select WARN on or off with ▲/▼.
Pressing ▲/▼ will switch **WARN** between on and off and that status will be displayed (e.g., **WARN :ON**) ▣

Switching the auxiliary setting

It is possible to use auxiliary equipment with this unit. Activate the auxiliary setting when using external equipment connected to this unit.

1 Press FUNCTION to select AUX.
Press **FUNCTION** repeatedly until **AUX** appears in the display.

2 Select AUX on or off with ▲/▼.
Pressing ▲/▼ will switch **AUX** between on and off and that status will be displayed (e.g., **AUX :ON**). ▣

Switching the dimmer setting

To prevent the display from being too bright at night, the display is automatically dimmed when the car's headlights are turned on. You can switch dimmer on or off.

1 Press FUNCTION to select DIMMER.
Press **FUNCTION** repeatedly until **DIMMER** appears in the display.

2 Select DIMMER on or off with ▲/▼.
Pressing ▲/▼ will switch **DIMMER** between on and off and that status will be displayed (e.g., **DIMMER :ON**). ▣

Switching the rear output setting

This unit's rear output (rear speaker leads output and RCA rear output) can be used for full-range speaker or subwoofer connection. If you switch the rear output setting to the subwoofer, you can connect a rear speaker lead directly to a subwoofer without using an auxiliary amp.

- If you connect a subwoofer to the rear output, set the output setting to subwoofer.
- Even if you change this setting, there is no output unless you switch the subwoofer output on (refer to *Using subwoofer output* on page 29).
- Both rear speaker leads output and RCA rear output are switched simultaneously in this setting.

1 Press FUNCTION to select the rear output setting mode.
Press **FUNCTION** repeatedly until **FRT+REAR** appears in the display.

- If the rear output setting has been set to the subwoofer then **FRT+S/W** will be displayed.

2 Select full-range speaker or subwoofer with ◄/►.
Pressing ◄/► will switch between **FRT+REAR** (full-range speaker) and **FRT+S/W** (subwoofer) and that status will be displayed. ▣

Setting the time display on or off

You can turn the time display on even when the sources are off.

Press CLOCK to select the time display.
Each press of **CLOCK** turns time display on or off.
• The time display disappears temporarily when you perform other operations, but the time indication is displayed again after 25 seconds. ▣

Using the AUX source

An IP-BUS-RCA Interconnector such as the CD-RB20 or CD-RB10 (sold separately) lets you connect this unit to auxiliary equipment featuring RCA output. For more details, refer to the IP-BUS-RCA Interconnector owner's manual.

Selecting AUX as the source

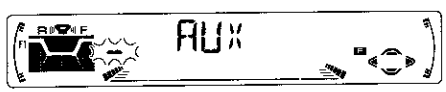
Press SOURCE to select AUX as the source.
Press **SOURCE** until **AUX** appears in the display.
• If the auxiliary setting is not switched on, **AUX** cannot be selected. For more details, see *Switching the auxiliary setting* on page 32.

Setting the AUX title

The title displayed for the **AUX** source can be changed.

1 After you have selected AUX as the source, press FUNCTION and hold until TITLE IN appears in the display.

2 Press ▲ or ▼ to select a letter of the alphabet.
Each press of ▲ will display a letter of the alphabet in **A B C ... X Y Z**, numbers and symbols in **1 2 3 ... @ # <** order. Each press of ▼ will display a letter in the reverse order, such as **Z Y X ... C B A** order.



3 Press ► to move the cursor to the next character position.
When the letter you want is displayed, press ► to move the cursor to the next position and then select the next letter. Press ◄ to move backwards in the display.

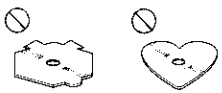
4 Move the cursor to the last position by pressing ► after entering the title.
When you press ► one more time, the entered title is stored in memory.

5 Press BAND/ESC to return to the playback display. ▣

CD player and care

• Use only CDs that have Compact Disc Digital Audio mark as shown below.

• Use only normal, round CDs. If you insert irregular, non-round, shaped CDs they may jam in the CD player or not play properly.



• Check all CDs for cracks, scratches or warped discs before playing. CDs that have cracks, scratches or are warped may not play properly. Do not use such discs.
• Avoid touching the recorded (non-printed side) surface when handling the disc.
• Store discs in their cases when not in use.
• Keep discs out of direct sunlight and do not expose the discs to high temperatures.
• Do not attach labels, write on or apply chemicals to the surface of the discs.
• To clean dirt from a CD, wipe the disc with a soft cloth outward from the center of the disc.

• If the heater is used in cold weather, moisture may form on components inside the CD player. Condensation may cause the CD player to not operate properly. If you think that condensation is a problem turn off the CD player for an hour or so to allow the CD player to dry out and wipe any damp discs with a soft cloth to remove the moisture.
• Road shocks may interrupt CD playback. ▣

CD-R/CD-RW discs

• CD-R (CD-Recordable)/CD-RW (CD-Rewritable) discs recorded on CD-R/CD-RW units other than a music CD recorder may not play properly on this CD player.
• Music CD-R/CD-RW discs, even recorded on a music CD recorder, may not play properly on this CD player due to differing disc characteristics, scratches or dirt on the disc. Dirt or condensation on the lens inside this unit may also prevent playback.
• Titles and other text information recorded on a CD-R/CD-RW disc may not be displayed by this unit.
• This unit conforms to the track skip function of the CD-R/CD-RW disc. The tracks containing the track skip information are skipped automatically.
• Read the precautions with CD-R/CD-RW discs before using them. ▣

Understanding built-in CD player error messages

When problems occur during CD play an error message may appear on the display. If an error message appears on the display refer to the table below to see what the problem is and the suggested method of correcting the problem. If the error cannot be corrected, contact your dealer or your nearest Pioneer Service Center.

Message	Cause	Action
ERROR-11, 12, 17, 30	Dirty disc	Clean disc.
ERROR-11, 12, 17, 30	Scratched disc	Replace disc.
ERROR-14	Blank disc	Check the disc.
ERROR-10, 11, 12, 14, 17, 30, A0	Electrical or mechanical	Turn the ignition ON and OFF, or switch to a different source, then back to the CD player.
ERROR-44	All tracks are skip tracks	Replace disc.
HEAT	CD player overheated	Turn off the CD player until the CD player cools down.

Specifications

General

Power source ..... 14.4 V DC (10.8 – 15.1 V allowable)
Grounding system ..... Negative type
Max. current consumption ..... 10.0 A
Dimensions (W × H × D):
(DIN)
Chassis ..... 178 × 50 × 157 mm
Nose ..... 170 × 58 × 19 mm
(D)
Chassis ..... 178 × 50 × 162 mm
Nose ..... 170 × 46 × 14 mm
Weight ..... 1.5 kg

Amplifier

Continuous power output is 22 W per channel min. into 4 ohms, both channels driven 50 to 15,000 Hz with no more than 5% THD.
Maximum power output ..... 50 W × 4, 50 W × 2/4 Ω + 70 W × 1/2 Ω (for subwoofer)
Load impedance ..... 4 Ω (4 – 8 Ω [2 Ω for 1 ch] allowable)
Preout max. output level/output impedance ..... 2.2 V/1 kΩ
Equalizer (3-Band Parametric Equalizer)
(Low) ..... Frequency: 40/80/100/160 Hz
Q Factor: 0.35/0.59/0.95/1.15 (+6 dB when boosted)
Level: ±12 dB
(Mid) ..... Frequency: 200/500/1k/2k Hz
Q Factor: 0.35/0.59/0.95/1.15 (+6 dB when boosted)
Level: ±12 dB
(High) ..... Frequency: 3.15k/8k/10k/12.5k Hz
Q Factor: 0.35/0.59/0.95/1.15 (+6 dB when boosted)
Level: ±12 dB
Loudness contour
(Low) ..... +3.5 dB (100 Hz), +3 dB (10 kHz)
(Mid) ..... +10 dB (100 Hz), +6.5 dB (10 kHz)
(High) ..... +7.1 dB (100 Hz), +1.1 dB (10 kHz) (volume: –30 dB)
Tone controls
(Bass) ..... Frequency: 40/63/100/160 Hz
Level: ±12 dB
(Treble) ..... Frequency: 2.5k/4k/6.3k/10k Hz
Level: ±12 dB
Subwoofer output
Frequency ..... 50/80/125 Hz
Slope ..... –12 dB/oct.
Gain ..... ±12 dB

CD player

System ..... Compact disc audio system
Usable discs ..... Compact disc
Signal format:
Sampling frequency ... 44.1 kHz
Number of quantization bits ..... 16; linear
Frequency characteristics ..... 5 – 20,000 Hz (±1 dB)
Signal-to-noise ratio ..... 94 dB (1 kHz) (IEC-A network)
Dynamic range ..... 92 dB (1 kHz)
Number of channels ..... 2 (stereo)

FM tuner

Frequency range ..... 87.9 – 107.9 MHz
Usable sensitivity ..... 9 dBf (0.8 μV/75 Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity .. 15 dBf (1.5 μV/75 Ω, mono)
Signal-to-noise ratio ..... 70 dB (IEC-A network)
Distortion ..... 0.3% (at 65 dBf, 1 kHz, stereo)
Frequency response ..... 30 – 15,000 Hz (±3 dB)
Stereo separation ..... 40 dB (at 65 dBf, 1 kHz)

AM tuner

Frequency range ..... 530 – 1,710 kHz (10 kHz)
Usable sensitivity ..... 18 μV (S/N: 20 dB)
Selectivity ..... 50 dB (±10 kHz)

Infrared remote control

Wavelength ..... 940 nm ±50 nm
Output ..... typ. 1.2 mW/sr per infrared LED

Note

- Specifications and the design are subject to possible modifications without notice due to improvements.